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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/656,752 | 09/04/2003 | Bradley Pesu | 130-076 | 9059 |
| 7590 | 08/16/2005 | | EXAMINER PAIK, SANG YEOP | |
| Ward & Oilvo Suite 300 382 Springfield Avenue Summit, NJ 07901 | | | ART UNIT 3742 | PAPER NUMBER |

DATE MAILED: 08/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SP

Office Action Summary

Application No.

10/656,752

Applicant(s)

PESU ET AL

Examiner

Sang Y. Paik

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 5/26/05.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-66 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-66 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4-6, 9-20, 22-39, 42-46, and 49-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruffolo et al (US 6,236,807) in view of Yamamoto et al (US 4,968,487) or Tanner et al (US 6,627,857), and Millan (US 6,278,840) or Junkel (US 6,044,202).

Ruffolo shows an air freshener with a housing for holding a circuit having a light emitting diode, a heater disposed in a ceramic heater block for conducting or radiating heat, electrical connectors to receive current from a power source, a container made of a translucent material such as glass for holding a volatile substance, a decorative shield, a wick inserted in the container and protruding through the heater block, the housing with a socket for holding the container, and a dome for venting out or facilitating the release of the heated substance. However, Ruffolo does not show a plurality of light emitting diodes and the heater being a resistor.

Yamamoto shows an air freshener with a plurality of light sources such as lamps to be illuminated in the freshener. Tanner shows a plurality of light sources such as the light emitting diodes can be used to provide the light illumination. In view of Yamamoto and Tanner, it would have been obvious to one of ordinary skill in the art to adapt Ruffolo with a plurality of light

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sources such as the light emitting diodes to illuminated in the air freshener to show various functions or indications of the freshener.

Millan and Junkel show an air freshener with a resistor as the heater for providing the necessary heat to vaporize the volatile substance. Junkel also shows a rectifier to rectify the AC current source to provide a constant DC to power the heater, and it further shows that the light emitting diode can be used as a night light.

In view of Millan and Junkel, it would have been obvious to one of ordinary skill in the art to adapt Ruffolo with the resistor as the heater to alternatively provide the necessary power to heat the volatile substance, and further adapt with a rectifier to convert AC current to DC current to power an electrically resistive resistor.

With respect to the recitation of the aromatic substance or of a scented oil, Ruffolo shows the volatile substance as a fragrant liquid. And, while it does not explicitly show the hydrocarbon or scented oil, it would have been obvious to one of ordinary skill in the art to provide the aromatic substance to include hydrocarbon or any other materials to provide the desired scent. Furthermore, it is noted to the applicant that the aromatic substance, which is an article or material that is worked on by the apparatus, does not limit apparatus claim (see, also, MPEP 2115).

With respect to claims 6, 23 and 39, Yamamoto shows that an optical fibers or path can be utilized with a lamp light source to provide the illumination. In view of Yamamoto, it would have been obvious to one of ordinary skill in the art to adapt Ruffolo with the fiber optical cables to further provide the illumination that would be more aesthetically appealing to a user.

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3. Claims 3, 21, 47, 48, 53-55 and 58-66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruffolo in view of Yamamoto and Tanner, and Millan or Junkel as applied to claims 1, 2, 4-6, 9-20, 22-39, 42-46, and 49-52 above, and further in view of Wattson (US 3,373,341) or Roland et al (US 3,386,005).

Ruffolo in view of Yamamoto and Tanner, and Millan or Junkel shows the structure and method claimed except providing a shunt diode including a full-wave bridge rectifier.

Wattson or Roland shows that it is well known in the art to provide a shunt diode such as full-wave bridge rectifier connected in parallel with a load to provide a constant DC current source. In view of Wattson or Roland, it would have been obvious to one of ordinary skill in the art to adapt Ruffolo, as modified by Yamamoto and Tanner, and Millan or Junkel, with a shunt diode such as a full-wave bridge rectifier to provide a constant DC power source from an AC power source to power an electrically resistive resistor and light emitting diode.

4. Claims 7, 8, 40, and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruffolo in view of Yamamoto and Tanner, Millan or Junkel as applied to claims 1, 2, 4-6, 9-20, 22-39, 42-46, and 49-52 above, and further in view of Muderlak et al (US 5,175,791).

Ruffolo in view of Yamamoto and Tanner, Millan or Junkel shows the structure and method claimed except providing an electrical thermal fuse.

Muderlak et al shows an air freshener with an electrical thermal fuse to prevent overheating. In view of Muderlak, it would have been obvious to one of ordinary skill in the art to adapt Ruffolo, as modified by Yamamoto and Tanner, Millan or Junkel, with an electrical thermal fuse to prevent overheating to the heater circuit.

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5. Claims 56 and 57 rejected under 35 U.S.C. 103(a) as being unpatentable over Ruffolo in view of Yamamoto and Tanner, Millan, Junkel, Wattson and Roland as applied to claims 3, 21, 47, 48, 53-55 and 58-66 above, and further in view of Muderlak et al (US 5,175,791).

Ruffolo in view of Yamamoto and Tanner, Millan, Junkel, Wattson and Roland shows the structure and method claimed except providing an electrical thermal fuse.

Muderlak shows an air freshener with an electrical thermal fuse to prevent overheating. In view of Muderlak, it would have been obvious to one of ordinary skill in the art to adapt Ruffolo, as modified by Yamamoto and Tanner, Millan, Junkel, Wattson and Roland, with an electrical thermal fuse to prevent overheating to the heater circuit.

Response to Arguments

6. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Y. Paik whose telephone number is 571-272-4783. The examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Sang Y Paik
Primary Examiner
Art Unit 3742

syp